

Shilo Inn- Fdaho Falls Some one will meet you at the autport - attraction you can Call their Shuttle Bus to come get

400 rogust 27, 1993 Shilo Inn

208/523-0088

Dr. Brewster Kahle WAIS, Inc. Mento Park, CA Tax (415) 327-6513

General

Meeting at 8:30 Am Idaho Falls Koom at
the Shilo Inn

SEVENTH ANNUAL INEL COMPUTING SYMPOSTUM - TIW-122/93 You are speaking Dear Dr. Kanie:

Storn 10:30 am - 11:30 This is to confirm our invitation to you to present an address on October 5 at the Seventh Annual Idaho National Engineering Laboratory (INEL) Computing Symposium. The INEL is a Department of Energy (OOE) engineering and research laboratory that employs over 11,000 professionals.

The symposium is scheduled for October 5 through 8. 1993 in Idaho Falls. Idaho. We have scheduled you to speak at 10 a.m. on October 5, 1993, for one hour. We would be honored to hear your views on the status and future of information based servers over wide area networks.

This year's theme is "Innovations and Applications". Emphasis will be on technology transfer to private industry and educational institutions. The agenda includes general sessions, technical sessions on a variety of computer related topics, workshops for educators, a gallery of submitted computer graphics, an exhibit of various computer technicgies developed at our Taboratory, and a vendor show. (See enclosed agenda and vendor inform ion )

The intent of this event is to inform screenists, engineers, and administrative staff on how new technological developments relate to their specific areas of expertise. Most of the attendees will be from the MEL, other DOE laboratories (Los Alamos, Lawre fvermore, Argonne National Laboratory, etc.), other government agencies ofversities, and private enterprise. We expect the attendance a this . It's symposium to exceed 2,500

In addition, we expect another 1,000 elementary through senior high teachers and school administrators to aitend the symposium on October 7 and 8. Teachers will be given the opportunity to receive college and/or state inservice credit for attending the symposium.

Another event scheduled as part of the symposium is a Technology Transfer Exhibition. The exhibition will feature INEL computing technologies with a Dr. Brewster Kahle WAIS, Inc. TLW-122-93 Page 2

high potential for industrial or academic transfer. This particular event will be promoted among private industry. The general public can attend all symposium events free of charge.

Idaho Falls is approximately three hours from the west entrance of Yellowstone National Park and two hours from Grand Teton National Park. We are also within easy driving distance to Sun Valley, Idaho; Jackson Hole, Wyoming; and the Idaho primative area. If you are interested in this area, we would be happy to make arrangements for a fishing trip, float trip, etc. The weather in early October is usually very mild.

We will need an abstract and a biography (each 300 words or less), and your audio/visual needs noted on the enclosed form. This information can be faxed to me at (208) 526-9936 at your earliest convenience.

I sincerely appreciate your consideration or our request and look forward to meeting you in October. If you require further information, please feel free to contact me at (208) 526-9728 or via email themsel.gov.

Sincerely, Chelleman

Teri Williams, Chair INCL Computing Symposium

Enclosure: As stated

## Seventh Annual IVEL Computing Symposium "Innovations & Applications" October 5 - 8, 1993 Idaho Falls, Idaho

## Agenda

# General Sessions

Shilo and Westbank Convention Centers

	Shilo and Westbank Convention Centers						
	Toewlay October 6	Wednesday October 6	Thursday October 7	Friday October 8			
	Welcome Address:	Keynote Address:		No General Session			
		"ideas & Information for Tomorrow's World"	"Innovations for the Classroom"				
	Mr. d <b>ohn M</b> . Wileynaki, DOS-Idaho Operations Office	Dr. Arno Penzias, Vice Fresident of Research at AT&T Bell Laboratories; Nobel Laureate; Author, "Ideas and Information"	Or. Kathleen Holmes, Director of the Center For Educational Technology, University of Texas				
	8:30 to 9:00 a.m.	8:30 to 9:30 a.m.	8:30 to 9:30 a.m.				
	Keynote Address	(not confirmed)	(not confirmed)	No General Session			
	"Innevisitions in Computing & Practical Applications of Furnie Technology"			·			
	Dr. Natholso Negroponte, Founder and director of the Massachusetts Institute of Technology's Media Laboratory						
	9:00 to 10:00 a.m.						
	"Ketworking the Future"	"The Army Reserve Component Automation System (RCAS)"	"How to Interpret Computer Jargon"	"Nature of the Changing World"			
	Dr. Brewster Kehle, Founder of Wide-Area Information Server (WAIS), Inc.	Colonel Mathew Thompson, Department of the Army Program Management	Dr. Tom Woods, President of Liveware Solutions International, Computer Training Consultant	Dr. Raymond Korzwoll, CEO of Kutzwell Applied Intelligence; Inventor: Author, "The Age of Intelligent Machines"			
1	10:30 to 11:30 a.m.	11:00 а.т. to поон	11:00 а.т. to поор	1:15 to 2:15 p.m.			
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## Seventh Annual INEL Computing Symposium October 5 through 8, 1993 Idaha Fulls, Idaha

## Technical Sessim Descriptions

Database Systems:

This session will entail various approaches, techniques, and tools for designing and implementing complex databases that are networked and distributed.

Industrial Applications Of Numerical Methods:

This session is dedicated to the solution of real-world problems through application of computer technology and numerical methods. The session spotlights several areas: (1) Novel application of existing computer programs and methods, (2) Verification of new numerical algorithms and programming methods of direct use to American industry.

Iniumnation Systems:

This session deals primarily with the use of computers for administrative and business applications.

Securiev:

Speakers in the Security session will address various tools and strategies for maintaining computer and network security and protecting against viruses

Electronic Conferencing:

Speakers will discuss electronic conferencing trends and how they will reduce business travel costs, improve communications, and enhance amployee training.

High Ferformance Computing: Methods, Algorithms, and Models This session focuses on development and implementation of high performance computing. New numerical algorithms, with emphasis on coarse grain parallelism, are featured. Also featured are method implementation and optimization as well as model development.

Neiworks:

Presentations in the Networks session will cover the various distributed computing architecture, examples of specific networked systems, and techniques for managing and controlling network usage.

End-User Computing and Services:

Presentations in this session address tools and utilities that can be implemented in any work environment to enhance personnel productivity

## Seventh Annual INEL Computing Symposium October 5 through 8, 1993 Idaha Falls, Idaha

## Technical Session Descriptions

Medical Computing:

With the growing need of our nation to reduce health care costs, opportunities for computer research and modeling in the medical field will increase. This session focuses on current and future computer research being conducted at the INEL and around the nation.

Technology in The Classroom:

This session is directed to teachers and other educators and will cover various ideas and information relating to how computer technologies can enhance K-12 classrooms.



Idaho National Engineering Laboratory \* December 1992

## INEL Overview

## History

he Idaho National Engineering
Laboratory Site is located on 890
square miles in the southeastern
Idaho desert. Within this perimeter are rune
muclear research and development racilities.

The federal government selected the INEL Sits in the late 1940s, when the Atomic Energy Commission needed a location for conducting nuclear research and development and nuclear-related defense work. The southeastern Idaho location was idea! because it was remote, large and unpopulated.

Established in 1949 as the National Reactor Testing Station, the INEL now contains the largest concentration of nuclear reactors in the world. Fifty-two reactors, most of them tirst-of-a-kind, have been built here, including the Navy's first prototye nuclear propulsion plant. Twelve of these reactors are still operable; the others were phased our upon the completion of their missions.

In 1951, the INEL achieved one of the most significant scientific accomplishments of the century — the first use of nuclear fission to produce usable electricity at Experimental Breeder Reactor No. 1. EBE-1 is now a Registered National Historic Landmark open to the public.

Boiling water reactor prototypes and the first pressurized water reactor were built and operated at the INEL in the 1950s. One, Borax III, was the first to light a city — Arco, Idaho — in 1955.

In 1974, the Site's name was changed to the Idaho National Engineering Laboratory to better characterize current projects, which

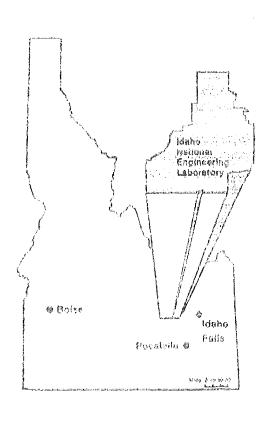
now include research engineering for nonnuclear and nuclear energy programs. The INEL amploys approximately 12,000 people.

## Mission

The INEL's mission is to provide the nation with innovations in nuclear technologies and unique scientific and engineering capabilities in non-nuclear programs that provide commercialization potential or enhance the quality of the environment.

## Administration

Five private contractors operate the laboratory for the Department of Energy Idaho Field Office. These include EG&C Idaho, Inc., Westinghouse Idaho Nuclear Co., Babcock & Wilcox Idaho, Protection Technology Idaho and MK-Ferguson of Idaho Co. DOE-ID also administers work at West Valley, N.Y. Two contractors. Argonne National Laboratory-West and Westinghouse Electric Corp., are tenants at the INEL reporting to DOE's Chicago Field Office and the Pittsburgh Naval Reactors Office, respectively. Each operates a facility on the INEL Site.



## Idaho National Engineering Laboratory

## Contractors

✓ EG&C Idaho is a prime management and operations contractor at the INEL. It is the mission of EG&G Idaho to provide competitively superior products and services in energy- and defense-related areas to the DOE at the INEL. Activities are conducted with priority placed on the health and safety of employees and the public, and protection of the environment. The parent company, EG&C Inc., is a Fortune 200 company with 31,000 employees in 21 nations.

Westinghouse Idaho Nuclear Co. (WINCO) is the contractor at the Idaho Chemical Processing Plant at the INEL Site. The ICPP is undergoing a significant change in its mission: In April 1992, Energy Secretary James Watkins announced that the ICPP will no longer reprocess spent nuclear fuel to recover highly enriched uranium. The ICPP work force will shift during the next several years to research and development geared toward processing spent fuel and high-level wastes for ultimate disposal in a geologic repository off-site.

✓ Babcock & Wilcox Idaho operates the Specific Manufacturing Capability project at Test Area North at the northern end of the INEL Site. SMC produces a special armor for the Army's main battle tank, the M1A1. B&W Idaho is jointly owned by elements of Babcock & Wilcox Co. and Ofin Corp.

W Argonne National Laboratory-West is the United States' prime testing center for experimental breeder reactor research. ANL-W is the home of Experimental Breeder Reactor No. 2, which has been in operation since 1964. It is also the home of research on the Integral Fast Reactor, the new generation of nuclear power plants. Research at ANL-West and ANL-East by the University of Chicago's Argonne National Laboratory is under contract to the EXOE's Chicago Field Office.

✓ Protection Technology Idaho provides protection and security services to the INEL at the Site and in-town facilities. PTI is a subsidiary of Day & Zimmerman of Philadelphia.

e" MK-Ferguson of Idaho conducts major construction operations at the INEL. More than 2,000 construction projects were completed at the INEL between 1979 and 1990. The projects varied in difficulty from the simple installation of concrete pads to the complex demolition and rebuilding of a process cell. The parent company is Morrison Knudsen Corp.

W Westinghouse Electric Corp. operates the Naval

Reactors Facility on the INEL Site for the INEL and U.S. Navy under jurisdiction of INE's Fittsburgh Naval Reactors Office. NRF tested the world's first nuclear submarine reactor plant in the early 1950s, and later operated prototypes of the reactor plant for large nuclear-powered surface ships. Besides its testing role, the NRF serves as a training station for crews which operate naval nuclear propulsion plants.

Personnel	j
(figures are approximate)	
Department of Energy Idaho Field Office	520
EG&G Idaho	5,165
Westinghouse Idaho Nuclear Co.	1,200
Westinghouse Electric Corp.	
(includes Navy stalf and students)	1,970
Argome National Laboratory-West	975
Balkrock & Wileox Idaho	471)
From Technology Idaho	4(X)
MK-Ferguson of Idaho	230
Architecture, engineering and construction	
contractors	4(N)
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## Major Projects

#### Nuclear research and development

The INEL is recognized for its nuclear research and development programs. Such programs have assisted this country's defense capability in numerous ways, and non-defense capabilities in others. From materials testing at the Advanced Test Reactor to studies of the Three Mile island-II core conducted at Test Area North, the INEL's contributions to nuclear research are highly significant.

#### Environmental Restoration

The INEL is committed to cleaning up the environmental consequences associated with past projects. In cooperation with the Environmental Protection Agency and the state of Idaho, the INEL Environmental Restoration Program plans and implements cleanup projects Site-wide. Some of these cleanup projects require use or development of

## Idaho National Engineering Laboratory

advanced technologies. For example, INEL personnel are investigating the most reasonable and desirable technology for cleaning up a former injection well at Test Area North and remediating waste buried in an area referred to as Pit 9 at the Radioactive Waste Management Complex.

## Technology Transfer

DOE continues its emphasis on working with private enterprise to develop and transfer expertise and technologies. The INEL has an aggressive technology exchange program that has already transferred numerous technologies into the private sector and provided opportunities for large and small businesses, universities and inventors. Projects include the study of nucroces for extracting phosphate from one, the development of a computenzed voice-paging system for use by emergency response personnel, and a program for U.S. stoel and automotive industries.

## Complex 21

DOE is considering reconfiguration of the complex of facilities—counted in different states throughout the country—that are used to produce the nation's nuclear weapons. The consolidated complex will be more compact, less diverse and less expensive to operate than the current facilities which were built over 30 years ago. Reconfiguration is based upon the assumption that a strong nuclear deterrence will remain a principal element of the security of the United States. INFL is well-suited for construction and operation of all or part of Complex 21. The new facility, if located at the INEL, would ensure that the INEL will be involved in the utilization of the most modern technologies for processing nuclear materials, including robotics, waste minimization and waste management.

## Integral Fast Reactor

The INEL is the home of Argonne National Laboratory-West's Integral Fast Reactor (IFR) test and development facilities. The IFR is a new generation of breeder reactor, being developed because it has significant advantages in the areas of waste, safety, fuel supply, transportation of nuclear materials and diversion of nuclear materials. The future of nuclear reactor use in this country may reside in the IFR technology.

### INEL Research Center

At the INEL Research Center in Idaho Falls, scientists and engineers explore a range of disciplines including chemical sciences, materials processing, biotechnology, physical sciences and environmental sciences. IRC personnel are involved in electric vehicle testing, improving methods to detect nuclear warheads and identifying biodegradable products for stripping metals. IRC research serves as a cornerstone for programs geared toward securing future energy supplies, increasing energy and economic efficiency, enhancing environmental quality and improving industrial productivity and competitiveness for the United States.

## THEL Supercomputing Center

The INFL Supercomputing Center offers a wide range of computer systems, computing expertiss, and end-user services that provide technologically advanced computing capabilities for engineering, scientific and administrative applications. The supercomputer, a CRAY X-MP/216, is currently available for use by other government agencies and private companies and universities with work funded by the federal government.

## Educational Programs

The INEL cooperates with educational partners in the intermountain region to enhance math and science education. The INEL sponsors educational programs and activities for students in grades K-12 and their teachers with summer camps, workshops, classroom activities, equipment and INEL technology and expertise. University students and faculty participate in research opportunities unique to the technologies developed at the INEL. Collaborative efforts among the INEL, educational insututions, industry, and other governmental agencies help produce a scientifically literate population.

## National Environmental Research Park

Besides being a nuclear laboratory, the Site is also a National Environmental Research Park, one of only five in the nation. All lands within the INEL boundaries are a protected outdoor laboratory where scientists from DOM, other federal and state agencies, universities and private research foundations conduct ecological studies.

he Seventh Annual Idaho National Engineering Laboratory (INEL) Computing Symposium is scheduled for October 5-8, 1993, at the Shilo Inn in Idaho Falls, Idaho. The purpose of this symposium is to provide a forum for INEL personnel and guests from outside the INEL to discuss the application of computers to their specific areas of expertise.

The theme for the 1995 symposium is "Innovations & Applications." The symposium will focus on the application of computers in scientific and business environments, supporting computer technologies and techniques, and future directions and trends in the computer industry. It will be directed to individuals who use computers in their work or make decisions dealing with computer technology.

The Angual INEL Computing Symposium is sponsored by the Department of Energy Idaho Field Office and INEL Contractors

Call For Pepers

The INEL Computing Symposium committee invites papers from those wishing to present their work. Abstracts must be submitted to order to participate Selection will be based on the timeliness of the technology and its relevancy to the Idaho National Engineering Laboratory

The symposium is an informal exchange of information; consequently, full written papers will not be required. Only abstracts will be published in the symposium program. Talks are limited to 20 memory with an additional 10 minutes for questions and answers. The primary audio-visual aids will be overheads or 35-mm slides. If other audio-visual equipment is needed, special arrangements must be made.

Buttle Care

Computer image produced by Chraitine A. Cullen. INEL Visualization and Imaging Feam.

## Method of Subarission

The deadline to submit abstracts for presentation at the Seventh Annual INEL Computing Symposium is April 30, 1993. Abstracts must be 500 words or less and authors are responsible for obtaining release approval before submission to the symposium committee.

Presentation of your work at this symposium does not preclude presentation or publication elsewhere. Authors will be notified of selection by May 30, 1993. Submissions must include the following:

- Title of proposed presentation
- Abstract summary (500 words or less)
- Session desired for presentation (see enclosed session descriptions).
- · Author's mineral
- · Organization nace c
- · Address, phone number, FAX number, and small address
- A brief biography (300 words or less) of the person(s) who will be presenting.

Abstracts and biographies may be submitted via email to the@inel.gov. or mailed to:

Teri L. Williams EG&G Maho, Inc. P.O. Bo 25 Idaho Fam, Maho 83415-2602

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The INEL is a facility operated by the U.S. Department of Energy

## Seventh Arnual INEL Computing Symposium

October 5-5, 1963 Shild-O'Callahan's Convention Center, Westeams Isn, Standon Inn, Idano Falls, Joano

## Innovations and Applications

The goal of the Seventh Annual INEL Computing Symposium is to provide a comprehensive overview of various computational innovations and their application to industry, government, and academia. In these changing times, emphasis will be placed on technology transfer and the sharing of rescurces, ideas, innovations, and expertise. The agenda has been designed to accommodate all tevels of computer knowledge; from the home user to the computational scientist. It is hoped that all who attend the INEL Computing Symposhim will come away with an understanding of how computer related innovations can apply to and improve their specific area of expertise.

#### STANKSIUM MIGHLICHTS

\* General Sessions

The General Sessions will feature renowned futurists and technology expens who will discuse the current uses and future directions of computer technology. (See details inside)

\* Technical Systems

The Technical Sessions will cover the application of computer hardware and software in specific disciplines. (See details inside)

9 Educator Sessions

The educator session workshops will provide elementary through senior high school teachers and school administrators computer training and information on how technology can be applied to a learning environment.

Inservice Credit Workshaps:
 "Computers Need People"
 "Whole Language and Technology for Emergent Literacy"
 "Project Spock"
 "Site--Students Investigating Today's Environment"

College Credit Workshops:
 "Grant Writing/Computer Workshop"
 "Introduction to Internet"
 "How to Utilize a Cray Supercomputer to the Classroom"
 "Introductory HyperCard in the Classroom"
 "Internediate HyperCard in the Classroom"

To Register for Educator Session Workshops Contact Korby Smith (208) 526-5482

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Vendor Exhibits
 Over thirty hardware and software vendor companies will display and
demonstrate their products.

Technology Transfer Earlibrium
This exhibition will teature demonstrations and displays of various linest computing technologies with a high potential for industrial or academic transfer. Selected exhibits are based on the commercialization and licensing potential for government and industry collectoration.

Exhibits will be displayed October 5 and 6, 9 a.m. to 5 p.m., at the Westhank inn.

Tutorials
 Various computer hardware and software vendors will offer specific training on the use of their products and some INFL entitles will also provide training in the use of INFL systems. (See details inside)

Graphics Gullery
The Graphics Gallery will feature computer-generated graphics
representing scientific, engineering, design, and artistic applications.
Images will be displayed throughout the Symposium facility

Special Session: Industrial Opportunities

The Industrial Opportunities session will feature leaders from various industries which have possible use of INEL technologies. These experts will discuss the current and future requirements of computer technology in their respective industry. The goal of this session is to stimulate technology transfer between the INEL and industry by providing the opportunity to explore new business areas, learn of specific industrial computational requirements, and make new contacts. Thursday, October 7 from 8:00 a.m. to 12:00 noon

- Chemicul: Dr. David Dixon, Computational Chemist
   E.I. Du Pont de Nemoura & Co. Inc.
- Malay: (Speaker unconfirmed)
- Oil and Natural Gas: Dr. Barney Groten, Vice President, Energy International Inc.
- Wood and Paper: Dr. Cyrus Aidun, Researcher, Institute of Paper Sciences and Technology
- Agriculture: Dr. Basil Acock, Research Leader and Supervisory Plant Physiologist, USDA, Systems Research Laboratory
- Agriculture: Dr. Tony Trent, Assistant Professor/Systems Analyst, College of Agriculture/University of Idaho
- Panel Discussion with presenters at 11:00 a.m.

All symposism events are open to the public and free of charge (with exception of vollege credit fees). See following pages for registration information.

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Tubbuay, October 5, Keymore Accesses - 8:00 a.m. Innovations in Computing and Proceed Applications of Future Technology



Da. Nicholas Negroporte Inventor and Futurist Massachusetts Institute of Technology

A true visionary, Nicholas Negroponte has created at MIT a high-tech playground for creative thought that will alter the way we communicate. Looking into the future, he sees completely new ways of accessing information and shows how changes in communication and computer technology will change the very fabric of society. A bright, pragmatic speaker, Negroponte brings his vision of information age to his audiences, complete with dramatic examples and fascinating specifics on current research.

Negroponte studied at MIT, where as a graduate student he specialized in the then-new field of computer-aided design. He joined the institute's facility in 1966, and for several years thereafter divided his teaching time between MIT and visiting professorships at Yale, Michigan, and the University of California at Berkeley.

in 1968 he also founded MIT's pioneering Architecture Machine Group, a combination lab and think tank responsible for many radically new approaches to the human-computer interface. Out of this experience came several influential texts by Negroponte, including The Architecture Machine, Soft Architecture Machine, and Computer Airis to Design and Architecture.

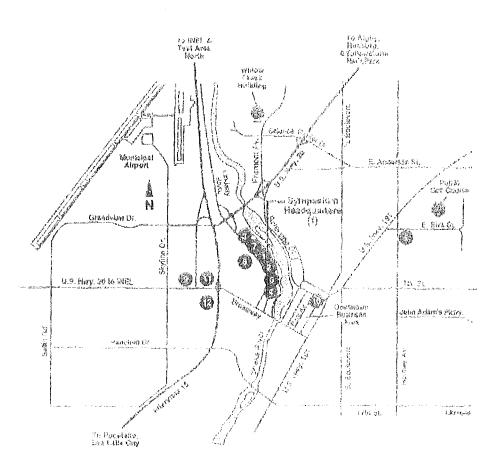
in addition, he consults to both government and industry, serves as an active member of several corporate boards of directors and is a special general partner in a venture capital fund dedicated to new technologies for information and publishing. Fie is also a serifor columnist for Wired magazine.

Tuzsday, October 5. General Session - 10:00 a.m. to 12:00 Hook

The Juture of Wide Area Information Servers

The Army Reserve Component Automation system (RCAS)

Dr. Breweter Kahle, Founder of Wide-Area Information Server (WAIS) Inc. Colonei Mathew Thompson, Department of the Army Program Management

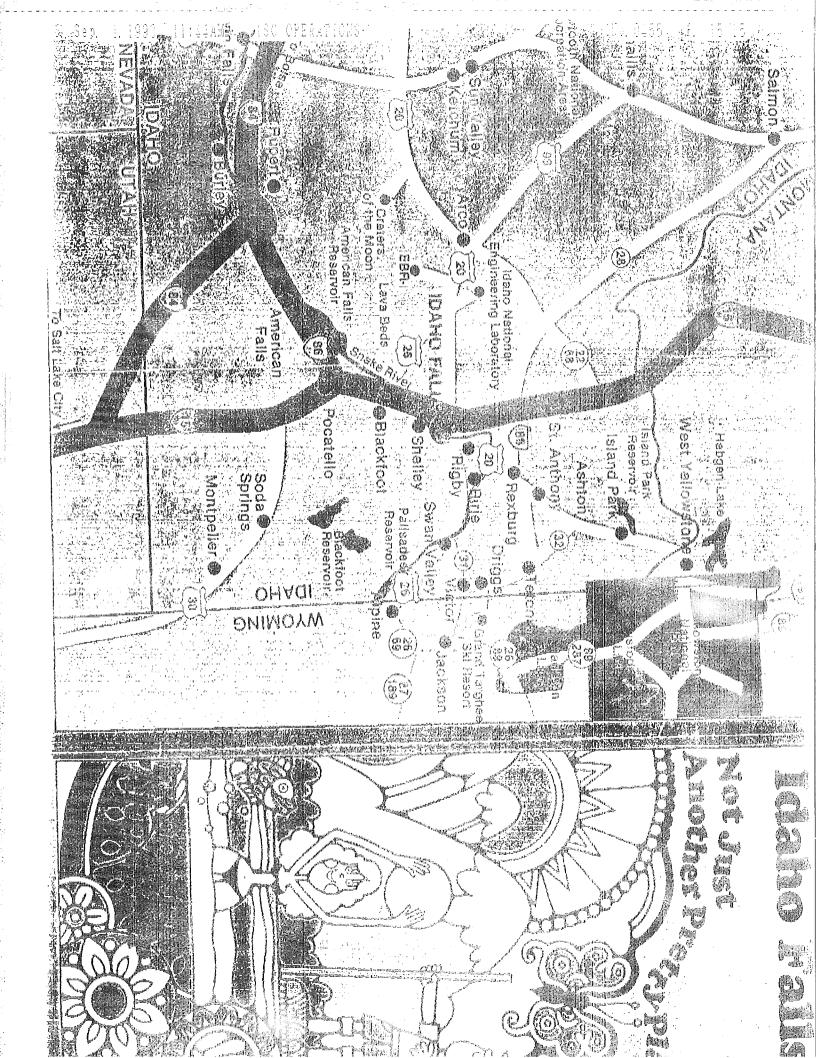


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Ankaitellian	(208) \$29-6000	\$47.00	Shulba, brusklarik, jarolizol, putok, proesis dialekt
Westlenk	(209) 923-9000	\$48.00	Shuttle, retrair ant, heated root, device weight room het uite
🐌 Lifteboe Inn	(208) 523-\$693	\$40.18	Squitte: brasklasi, cucktad jestjaujani
Drittaced Inn	(208) 523-2242	\$42.00	Microwaya, refrigerate , ABO, restaurants reality
Weston Quality	(200) 523 0260	\$40,00	Tad, pedicurent
Spera	(200) \$22,9880	533.10	HBO: cable TV, hor kie, septes, regaliterits nearby
Mozel Weg	(208) 822 1112	\$32.00	Restroyed, indoor cop, hall too
D Crador Ledge	(202) 523-2960	\$30,00	Realeuraris neerby
D Mad G	(200) 522-0112	147,99	Restourants natury, HBO & ESPN
Contoit Inn	(204) 528-2804	\$44.00	Cool broskrast, Indicorpool, Jastizzi, httpowera, religiosistor, cable TV

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

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## tlw@inel.gov, 2:24 PM 9/16/93 -0000, Speech Desc & Bio/WAIS Inc

To: tlw@inel.gov

From: Dia@wais.com (Dia Cheney)
Subject: Speech Desc & Bio/WAIS Inc

The Future of WAIS

Publishers, and the availability of published information have spurred the growth of interlinked networks. Within the past year, commercial, technical, and political forces have pushed forward the development of a vast Internet.

Central to the notion of the Digital Superhighway is the idea that publishers will control their own destiny, and not necessarily market through third-party online services. As the lessons of the Internet filter throughout our society, the question of "who is a publisher?" and "how does one publish?" becomes central to any organization.

This session will examine differences between print-based information distribution and what is possible in the new, networked world. In addition, several of the enabling technologies spawned from the Internet will be reviewed, including World Wide Web and the Wide Area Information Servers (WAIS).

In addition, basic questions such as; "how to I hook in?", "who's using it?", "what technologies are available to support it?", "what are the publishing opportunities?" will be answered.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Brewster Kahle President Wide Area Information Servers, Inc.

Bio:

Inventor and architect of the WAIS electronic publishing system, Brewster Kahle has lead the multi-company effort to build a practical system for end-users to find and retrieve information from servers worldwide. Before this work, he helped design and build parallel supercomputers at Thinking Machines Corporation.

Brewster was schooled at MIT in Computer Science and Artificial Intelligence.